

Claims

We claim:

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1. A system for reducing event notifications emitted to a manager comprising an agent, the agent including:
- a filter receiving event notifications from processes within the agent and providing filtered event notifications;
 - an event counter module coupled to the filter for receiving the filtered event notifications from the filter; and
 - a performance measurement module coupled to the event counter module for receiving event counter information from the event counter module and sending alarms to the manager.
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- Sub A² 15
2. The system of claim 1, wherein the filter is operable to select the filtered event notifications to be sent to the event counter module.
3. The system of claim 2, wherein the manager establishes selection criteria upon which the filter selects the filtered event notifications.
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4. The system of claim 1, wherein the manager requests creation of event count objects upon which the event counter module creates event count information from the filtered event notifications.
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- Sub A³ 30
5. The system of claim 1, wherein the event counter module establishes threshold crossing criteria and alarm emission criteria for the performance measurement module.
6. The system of claim 1, wherein the performance measurement module emits an alarm to the manager if the event counter information exceeds a threshold.

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7. A method for reducing the number of event notifications sent to a manager comprising the steps of:

- a) filtering event notifications to provide filtered event notifications;
- b) counting the filtered event notifications to generate event count information from the filtered event notifications;
- c) emitting an alarm if the event count information exceeds a threshold.

8. The method of claim 7, wherein filtering event notifications comprises the steps of :

- a) receiving the event notifications from an agent; and
- b) selecting the event notifications based on selection criteria to provide filtered event notifications.

9. The method of claim 7, wherein counting the event notifications comprises the steps of:

- a) receiving filtered event notifications;
- b) incrementing an event count based on performance measurement definitions for each of the filtered event notifications; and
- c) establishing event count information specific to each of the filtered event notifications based on event count criteria.

10. The method of claim 7, wherein emitting an alarm when the event count exceeds a threshold comprises the steps of:

- a) comparing the event count information against a threshold;
- b) emitting an alarm to the manager if the event count information exceeds the threshold; and
- c) resetting the event count information if an alarm is emitted to the manager.

11. The method of claim 7, wherein the manager establishes criteria for selection of event notifications.

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12. The method of claim 7, wherein the manager requests creation of event counter objects having information on thresholding and alarm notification.

13. The method of claim 7, wherein a group of event notifications may be selected and counted as one event.

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14. Apparatus for reducing the number of event notifications sent to a manager comprising:

- a) means for filtering to provide filtered event notifications;
- 5 b) means for counting to generate event count information from the filtered event notifications;
- c) means for emitting alarms to the manager.

15. The apparatus of claim 14, wherein the filtering means comprise:

- 10 a) means for receiving the event notifications from an agent; and
- b) means for selecting the event notifications based on filtering criteria to provide filtered event notifications.

16. The apparatus of claim 14, wherein counting means comprise:

- 15 a) means for receiving filtered event notifications from the filtering means;
- b) means for incrementing an event count based on performance measurement definitions for each of the filtered event notifications; and
- c) means for establishing event count information specific to each of the filtered event notifications based on event count criteria.

17. The method of claim 14, wherein means for emitting alarms to the manager comprise:

- a) means for comparing the event count information against a threshold;
- b) means for emitting an alarm to the manager if the event count
- 25 information exceeds the threshold; and
- c) means for resetting the event count information if an alarm is emitted to the manager.

18. The apparatus of claim 14, wherein the manager establishes filtering

30 criteria for the filtering means.

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19. The apparatus of claim 14, wherein the manager requests creation of event count criteria for the counting means.

20. The apparatus of claim 14, wherein a group of event notifications may be selected by the filtering means and considered as one event by the counting means.

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